

19970622.qrp qrp-por0.764
 >From owner-qrp-l@lehigh.edu Sat Jun 21 18:03 CDT 1997
 >Received: from sco.theporch.com (sco.theporch.com [207.234.31.38])
 > by uro.theporch.com (8.8.6/A-UX-3.1.1) with ESMTP id SAA01078
 > for <shimshon@uro.theporch.com>; Sat, 21 Jun 1997 18:03:39 -0500 (CDT)
 >Received: from fidoii.CC.lehigh.EDU (fidoii.CC.lehigh.EDU [128.180.1.4])
 > by sco.theporch.com (8.8.6/SCO-5.0.2) with ESMTP id XAA09575
 > for <shimshon@theporch.com>; Sat, 21 Jun 1997 23:03:33 GMT
 >Received: from Lehigh.EDU ([127.0.0.1]) by fidoii.cc.Lehigh.EDU with SMTP id
 <34933-50422>; Sat, 21 Jun 1997 19:03:19 -0400
 >Date: Sat, 21 Jun 1997 19:03:07 EDT
 >Sender: owner-qrp-l@lehigh.edu
 >Precedence: bulk
 >From: qrp-l@lehigh.edu
 >To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
 >Subject: QRP-L digest 764
 >Mime-Version: 1.0
 >Content-Type: text/plain; charset=us-ascii
 >X-Listprocessor-Version: 8.1 beta -- ListProcessor(tm) by CREN
 >Message-Id: <97Jun21.190319edt.34933-50422+55@fidoii.cc.Lehigh.EDU>
 >Status: 0

QRP-L Digest 764

Topics covered in this issue include:

- 1) [21700] If you hear me, pse send 13 to 15 WPM--K3ETS
by Dennis Zeares K3ETS <wzeares@post.cis.smu.edu>
- 2) [21701] SST 40
by Bigbob97@aol.com
- 3) [21702] Scout Hike
by herr@ridgecrest.ca.us (Michael Herr)
- 4) [21703] FS:Unbuilt Heathkit HW-8
by Lee <jcs4us@cosmoaccess.net>
- 5) [21704] *ALINCO* Mailing List
by Brian Short <SHORTCKT@primenet.com>
- 6) [21705] Re: Juno crashes
by haf47@juno.com
- 7) [21706] SST 40
by Bigbob97@aol.com
- 8) [21707] SST- another 20M rig is alive
by Jim Francoeur KC1FB <jim_kc1fb@pipeline.com>
- 9) [21708] Bay to Bay Center
by Bill Todd <bill@techline.com>
- 10) [21709] Re: Envirotronics
by WD6BOR@aol.com
- 11) [21710] Loops - more stuff
by Brad Mugleston <bmug@gwl.com>

- 12) [21711] Loop antennas
by Brad Mugleston <bmug@gwl.com>
- 13) [21712] Re: HP8640B Sig Gen
by Paul Harden <pharden@aoc.nrao.edu>
- 14) [21713] Harvey Wells Bandmaster Z Match
by d.nordquest@juno.com
- 15) [21714] short vs. long path
by Joel Malman <malman@BBN.COM>
- 16) [21715] Re: Juno crashes
by d.nordquest@juno.com
- 17) [21716] Re: short vs. long path
by Hank Kohl <k8dd@tir.com>
- 18) [21717] Re: HP8640B Sig Gen
by Chris Trask <ctrask@primenet.com>
- 19) [21718] Re: short vs. long path
by Alan Kaul <kaul@netcom.com>
- 20) [21719] All Asia DX
by Joel Malman <malman@BBN.COM>
- 21) [21720] EA-QRP CLUB
by "Juan Antonio =?iso-8859-1?Q?L=F3pez?= Delgado, EA8QJ"
<jalopezd@arrakis.es>
- 22) [21721] WTB: Stone Mt. Keypad for IC-735
by timcook@erinet.com
- 23) [21722] Re: HP8640B Sig Gen
by Zack Lau <zlau@arrl.org>
- 24) [21723] Fwd: HEATHKIT SERVICE BULLETINS - CONT.
by DCrespy@aol.com
- 25) [21724] Re: BARK Files causing Juno Crash?
by wb2vuo@juno.com (William K Hibbert)
- 26) [21725] SS NL
by Bruce Rattray <RATTRAY@siast.sk.ca>
- 27) [21726] Antenna Tuner Toroid Turns?
by tgordish@concentric.net
- 28) [21727] Beam Heading Programs
by n4so@juno.com
- 29) [21728] Re: Headsup SS 97 Note
by Bob Roach <KE4QOK@worldnet.att.net>
- 30) [21729] NQ2RP/B a REAL Test on your Ears!!
by wb2vuo@juno.com (William K Hibbert)
- 31) [21730] Correct Loop Antenna Circumference
by ji3m@maxwell.com (James R. Duffey)
- 32) [21731] Re: short vs. long path
by "Rick Hadley" <r.hadley@www.mebbs.com>
- 33) [21732] Minicircuits on-line special
by Mike Czuhajewski <wa8mcq@u1.abs.net>
- 34) [21733] SST ABX Mod
by "Paul Christensen" <paulc@mediaone.net>
- 35) [21734] For Sale: Ten-Tec 525D Argosy II

- by pat_b@juno.com (Patricia A Bright)
- 36) [21735] repairing scratches on Tektronics equipment.
by Bernie Doehner <bad@uhf.wireless.net>
 - 37) [21736] Looking for small parts
by "Mark A. Arvidson" <arvidson@swbell.net>
 - 38) [21737] Web Site Update
by "Marshall Emm" <mgemm@mtechnologies.com>
 - 39) [21738] Re: Antenna Tuner Toroid Turns?
by Leon Heller <leon@lfheller.demon.co.uk>
 - 40) [21739] Re: BARK Files causing Juno Crash?
by haf47@juno.com
 - 41) [21740] NE602 Differential Input/Output Impedance Question
by astone@erols.com
 - 42) [21741] Re: Juno crashes
by haf47@juno.com
 - 43) [21742] Re: Juno crashes
by haf47@juno.com
 - 44) [21743] Re: Juno crashes
by haf47@juno.com
 - 45) [21744] FS: MFJ-411
by Michael Vines <mvines@pacbell.net>

Date: Fri, 20 Jun 97 18:32 CDT
From: Dennis Zeares K3ETS <wzeares@post.cis.smu.edu>
To: qrp-l@Lehigh.EDU
Subject: [21700] If you hear me, pse send 13 to 15 WPM--K3ETS
Message-ID: <1.5.4.16.19970620171734.29cf2742@post.smu.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

dusted off the rig and decided to see if I could work a few
more states before I have to give it up do to illness.....

however, I noticed that I am not doing 20 WPM very well.....so...
if you hear me and don't mind, please send between 13 to 15 WPM...
the old brain just doesn't work like it used to.

I will appreciate every QSO very much. This is a great group and
a great experience.

72/73 Dennis K3ETS

Date: Fri, 20 Jun 1997 19:39:50 -0400 (EDT)
From: Bigbob97@aol.com
To: QRP-L@Lehigh.EDU
Subject: [21701] SST 40
Message-ID: <970620193949_-1429206199@emout05.mail.aol.com>

Hello all,

Well, the SST 40 worked great - Rx and Tx. The Rx was a little low so that mod on replacing C10 with 15pf will probably do the trick - thanks!

Installed the KC 1 and the Rx went deaf. BTW - this KC 1 is one of the coolest gadgets I have ever seen.

On page 14 of the SST directions it says to use 100pf for CV when connecting the VX0 to the KC 1. Perhaps this is a misprint and it should read 10 pf.

Any comments out there ?? KC 1 works great as does the Tx but perhaps there is no VX0 output left for the Rx mixer. I'm a little confused that the Tx is working - but perhaps it's off freq.

I will try changing the cap and post results here later tonight - then I won't be back here until Monday. Any and all advice welcome !!!!

73,
Bob WB2DHK

Date: Fri, 20 Jun 1997 16:42:26 -0800
From: herr@ridgecrest.ca.us (Michael Herr)
To: qrp-l@Lehigh.EDU
Subject: [21702] Scout Hike
Message-ID: <v01530501afd0d35c0e34@[199.120.150.45]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Gang,

I'll be backpacking with the scouts this weekend, 21 - 22 June, at Rockhouse Basin, CA (about 20 miles north and west of Inyokern CA). I'll have the trusty, rusty Norcal 40 with me so look for me around 7040.

72
Mike WA6ARA

Date: Sat, 21 Jun 1997 04:57:05 -0700
From: Lee <jcs4us@cosmoaccess.net>
To: qrp-l@Lehigh.EDU
Subject: [21703] FS:Unbuilt Heathkit HW-8
Message-ID: <1.5.4.32.19970621115705.00692358@cosmoaccess.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

For Sale: Heathkit HW-8 unbuilt.... It has been removed from its original box... Some of the parts have been seperated into plastic bins, Most of the parts are still in there original envelopes... The case is still in its original plastic wrap, including the front and rear covers, dial ect... The variable capacitors and the meter are in there little boxes...If interested in more information or specific questions please email me... Selling for best offer over \$200.00 73, Lee jcs4us@cosmoaccess.net

----- So far 38-Special Ten Tec 509 Thats it....
-

Date: Sat, 21 Jun 1997 00:19:36 +0100
From: Brian Short <SHORTCKT@primenet.com>
To: forsale-swap@qsl.net, QRP-l@Lehigh.EDU, SCAN-L@UAFSYSB.UARK.EDU
Subject: [21704] *ALINCO* Mailing List
Message-ID: <3.0.1.32.19970621001936.006d8cf8@mailhost.primenet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Subject: *ALINCO* Mailing List

Alinco is a mailing list (reflector) devoted entirely to equipment manufactured and distributed by Alinco, Inc. of Torrance, Ca 90501.

- * equipment, accessories
- * repairs, modifications, enhancements
- * questions, discussions, etc
- * buy, sell, trade, swap

To be added to the mailing list, send email as follows:

TO: majordomo@qsl.net
SUBJECT:
BODY: subscribe alinco

To be deleted from the mailing list, send email as follows:

TO: majordomo@qsl.net
SUBJECT:
BODY: unsubscribe alinco

To post items to the reflector, send email as follows:

TO: alinco@qsl.net

If you have questions or need assistance contact: k7on@qsl.net

1994 E Laguna Dr Tempe, Az 85282 (602)839-3484
k7on@qsl.net >or< <http://www.qsl.net/k7on>

Date: Fri, 20 Jun 1997 20:49:36 EDT
From: haf47@juno.com
To: n4so@juno.com
Cc: qrp-l@Lehigh.EDU
Subject: [21705] Re: Juno crashes
Message-ID: <19970620.204613.6967.1.HAF47@juno.com>

Hi ken...yup, I'm having the same problem. Unfortunately, I havn't yet been able to figure out to delete this message as the program does indeed crash every time I ckilk on it! How did you overcome this long enough to delete it? Thanks for any info es 73, Howard WA2AFD

haf47@juno.com

On Thu, 19 Jun 1997 22:56:11 EDT n4so@juno.com writes:
>I believe Juno will crash and issue a General Protection Fault error
>when it
>tries to read message "Antennas from the BARK PBBS: Loops"
>I think you will need to delete this message.
>Any similar problems?
>
>Ken Brown , N4SO
>QTH: Nr Mobile, AL
>QRP-L #622
>n4so@juno.com

Date: Fri, 20 Jun 1997 20:51:55 -0400 (EDT)
From: Bigbob97@aol.com
To: QRP-L@Lehigh.EDU
Subject: [21706] SST 40
Message-ID: <970620205155_1309853044@emout11.mail.aol.com>

Hello - This is a follow up to my question about the SST 40 and the KC1:

No problems! Found a wiring error. The 15k Resistor goes from pins 7 to 3 on U1 - not 7 to 1 !! Now the Rx is alive and well. The 100pf CV is working fine. Now if someone would just answer my CQ at 1.5 watts !!!

73,
Bob WB2DHK

Date: Fri, 20 Jun 1997 21:30:16 -0400
From: Jim Francoeur KC1FB <jim_kc1fb@pipeline.com>
To: qrp-l@lehigh.edu
Subject: [21707] SST- another 20M rig is alive
Message-ID: <1.5.4.32.19970621013016.00684d28@pop.pipeline.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Had a day of vacation this Friday so decided to put my SSt 20M version together. What a great kit!

Only did the 15K (actually 18K) linear tune mod to the tuning pot, the trimmer cap for C10 (used a 5-75p trimmer) to get a better receive center freq, and a string of RFC's for RFC3. Started with 3.3 + 2.2 + 1 uH range too low. took out the 2.2 uH range too high. Added a 1uH in the string, looks just about right, but not anywhere near the range indicated in the specs. Now I'm going from 14.052 to 14.062, only 10 KH. Have to play with it.

Haven't made a QSO yet, but heard lots of DX with a 60' sloping wire off the deck. Seems to have the best output waveform at about 2 Watts out with a 4 A-h gell cell.

Thanks for a really nice and easy kit that works right off the bat.

Does it get better than this?

72,

Jim

Jim Francoeur KC1FB Norwalk,CT QRP-L #29

Date: Fri, 20 Jun 1997 18:31:24 -0700
From: Bill Todd <bill@techline.com>
To: nwq-l@scn.org
Cc: qrp-l@Lehigh.EDU
Subject: [21708] Bay to Bay Center
Message-ID: <1.5.4.32.19970621013124.006c6400@mail.techline.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello Group(s) -

I was finally able to create a .JPG graphics file of the "official" map to Bay Center, WA for the NW QRP Club's Field Day. For those of you who have a back issue of the June 96 or June 95 NWQ Newsletter...the map is the same image.

If anyone of either list want's to receive a copy of the map, please let me know, and I will send it to you as an attachment.

The file is about 270K bytes...so at 14.4 baud, it might take a few minutes to download it.

BCNU,
CUL - Bill-N7MFB
<http://www.techline.com/~bill>

Date: Fri, 20 Jun 1997 21:52:51 -0400 (EDT)
From: WD6BOR@aol.com
To: bmitchel@kodak.com, qrp-l@Lehigh.EDU
Subject: [21709] Re: Envirotronics
Message-ID: <970620215250_39266985@emout10.mail.aol.com>

In a message dated 97-06-20 06:24:36 EDT, bmitchel@kodak.com (Brad Mitchell) writes:

<< Maybe it's a great paddle, but I just don't like the name.
Draws an image of crunchy granola as opposed to hardened
steel. Is it just me or is that name sort of out of character?
>>

Brad,

It must just be you. Out here in California we think crunchy granola and tree hugging are the greatest thing sinnce environmentally friendly QRP radio.

I bought one of the paddles and am more than impresses (VERY impresssed) by the quality of design and workmanship. This may well be one of the best buys for the money and will give anyone a substantial and beautiful paddle for everyday use.

The hottub's ready. Gotta go now. Now where did I put those peacock feathers...

Darrel, WD6BOR

Date: Fri, 20 Jun 1997 14:34:57 -0600
From: Brad Mugleston <bmug@gw1.com>
To: "'qrp-1@lehigh.edu'" <qrp-1@Lehigh.EDU>
Subject: [21710] Loops - more stuff
Message-ID: <01BC7D87.20F64A40@pps-pc10.gw1.com>
Content-Type: text

I forgot one other thing I do. I purchased a bag of egg insulators for electric fencing cheep (a few bucks for a dozen) they work fine for light weight and or temporary antennas. I got these at HM Woods (just a hardware store) back in the fencing department.

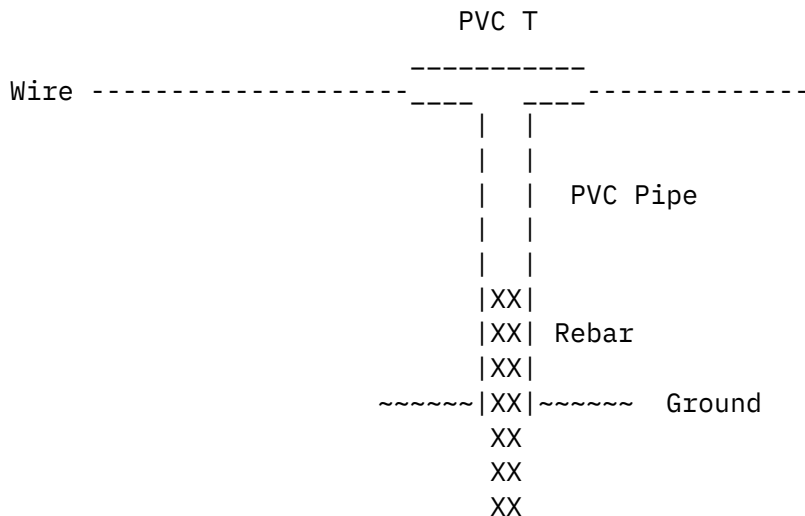
de KB0ROL, Brad

Date: Fri, 20 Jun 1997 14:32:27 -0600
From: Brad Mugleston <bmug@gw1.com>

To: "'qrp-1@lehigh.edu'" <qrp-1@lehigh.edu>
Subject: [21711] Loop antennas
Message-ID: <01BC7D86.C7A68540@pps-pc10.gwl.com>
Content-Type: text

With all the talk on Loop antennas I thought I would pass along something I saw one day. Being in Colorado where trees have a hard time growing unless they are planted and taken care of, one inventive ham here uses PVC pipes with T's on the top to run the wire through. All around his property are white PVC trees spaced where needed. At the top are T adapters with the wire running through them to keep the wire put. I didn't pay much attention at the time but if I were to do it I would drive rebar into the ground and put the PVC over it to support the PVC.

I will try a picture



Boy that was fun. You could use 90 degree T's for the corners. It would put it about 10 feet above the ground.

de KB0ROL, Brad

Date: Fri, 20 Jun 1997 20:42:59 -0600
From: Paul Harden <pharden@aoc.nrao.edu>

To: qrp-1@Lehigh.EDU
Subject: [21712] Re: HP8640B Sig Gen
Message-ID: <199706210242.UAA14218@zia.aoc.nrao.edu>

We have a bunch of H-P 8640B's at the observatory for frequency references and signal generators on the test bench (along with the newer HP 8657's). Many of the lab tests I've done on QRP rigs and published here used the H-P 8640B. It's frequency range is darn near dc to light (well, 1 GHz) with output level variable from +20dBm to -145dBm. Also has various AM and FM modulation, etc. It is 17 inches wide (for table top or mounting in a 19" rack) and 5 inches or so tall. Built like a tank.

I don't know the fella who is offering them ... but I do want to endorse that if you want a top-of-the-line signal generator you can depend on for years to come, you can't go wrong with the HP 8640B. It was (and still is) one of the industry standards. Our newer HP 8657B's are like \$18K new or something. We also have a few surplus military versions, that are equally impressive (just uglier than sin with their black tank-metal front panel). I've never seen them in the used market for less than \$1K.

72, Paul NA5N

Date: Fri, 20 Jun 1997 23:11:24 EDT
From: d.nordquest@juno.com
To: qrp-1@lehigh.edu
Subject: [21713] Harvey Wells Bandmaster Z Match
Message-ID: <19970620.201549.4919.2.d.nordquest@juno.com>

Hi All,

I've just obtained this item from a friend, but it lacks the proper meter and had no documentation. If anyone has one and could check the sensitivity of the meter movement, I'd be most grateful. Finding an exact replacement is probably unlikely, but if anyone does have the meter for sale, please let me know at address above. If anyone has a manual that might be partially copied, I'd be grateful for an email on that, too.

For anyone curious, the unit is rated for 500 watts transmitter input or about half that RF into the unit. It has heavy-duty variable caps and non-variable coils. Supposedly matches from 10 to 2000 ohms from 10 to 80 meters. It provides for coax and twin-lead connections.

These specs are from a mid-fifties QST ad I found in the library.
I did not find a review.

Thanks!

Dave KE9ED

Date: Fri, 20 Jun 97 23:12:21 EDT
From: Joel Malman <malman@BBN.COM>
To: qrp-1@Lehigh.EDU
Cc: malman@BBN.COM
Subject: [21714] short vs. long path
Message-ID: <199706210312.XAA70925@nss2.CC.Lehigh.EDU>

QRP folks,

I have been playing around in the All Asia DX contest tonight. Worked a few JA's and few Russia (including a new country for me: UN5).

In any event, I was wondering, what is the a "short path" and the "long path" from the US East Coast to Japan... Seems to me that since JA is +12 hours ahead of EST, the short path must equal the long path... Unless you have a beam antenna and work over the pole. [No beam antenna here! Just wires in the woods behind the condo].

Question: If I had a beam antenna, here on the East coast, where should I point it to work JA, VK, ZL etc. ? Does "short path" vs "long path" make any difference in this case?

/joel wa1qvm (malman@bbn.com ... Concord, Ma.)
WIMPS: Qs=167 30m=150 17m=16 12m=01 States=24/04/00 DX=048/11/01

Date: Fri, 20 Jun 1997 23:21:59 EDT
From: d.nordquest@juno.com
To: qrp-1@Lehigh.EDU
Subject: [21715] Re: Juno crashes
Message-ID: <19970620.202558.4919.3.d.nordquest@juno.com>

To recover without replacing your c:\juno\user0000\Fold0000.frm file (Inbox), go to your favorite editor, open this file, and delete the offending message(s) only. (If you are not the only user, user0000 could be something else (user0001, probably)).

Dave KE9ED

Date: Sat, 21 Jun 1997 03:34:39 +0100
From: Hank Kohl <k8dd@tir.com>
To: malman@BBN.COM
Cc: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [21716] Re: short vs. long path
Message-ID: <2.2.32.19970621023439.009cced4@tir.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 23:12 6/20/97 EDT, Joel Malman wrote:

>In any event, I was wondering, what is the a "short path" and the "long path"
>from the US East Coast to Japan... Seems to me that since JA is +12 hours
>ahead of EST, the short path must equal the long path... Unless you have a
>beam antenna and work over the pole. [No beam antenna here! Just wires in
>the woods behind the condo].

Short path is basically north-north west.
Lont path is the other way - south-south east.

Don't think I've ever worked a JA long path on 20-15-10.

Basically JA's are around sunset to the north west on 10 & 15. Around
dawn on 20. There are exceptions dependant on propagation, but those are
the times I'd look for the JA part of the world.

A great purchase would be a DX-Edge (slide rule showing the grey lines) or
a grey line computer program. There should be some around the net as Public
Domain or Shareware.

Next choice would be the propagation charts in QST or CQ.

73 Hank K8DD

*/ Hank Kohl K8DD k8dd@contesting.com
*/ ARRL TS (k8dd@tir.com)
*/ MI-QRP - Vice Pres. QRP-ARCI - Director
*/ G-QRP ARRL/LM QCWA/LM QCAO/LM

Date: Fri, 20 Jun 1997 21:41:23 -0700 (MST)

On Fri, 20 Jun 1997, Paul Harden wrote:

<<*** SNIP ***>>

An equally good generator is the Marconi 2018 (80kHz to 540MHz) or the 2019 (80kHz to 1080MHz). It has an HP-IB option which the HP 8640 lacks, which is awfully nice to have if you're going to do any automated testing. Mine has an additional option which takes it down to 10kHz, as well as an ovenized crystal oscillator. The internal construction is very robust: Each PCB is in its own shielded enclosure. Both the HP and Marconi instruments were intended for avionics and screen room EMI testing.

Chris

Chris Trask / N7ZWY
Principal Engineer
ATG Design Services
P.O. Box 25240
Tempe, Arizona 85285-5240

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c__; c__; '-...'>.__

Email: ctrask@primenet.com

Graphics by Loek Frederiks

Date: Fri, 20 Jun 1997 22:42:41 -0700 (PDT)
From: Alan Kaul <kaul@netcom.com>
To: Joel Malman <malman@BBN.COM>
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [21718] Re: short vs. long path
Message-ID: <Pine.3.89.9706202230.A26807-0100000@netcom21>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Joel ... shortpath EAST COAST to JA is over the pole to the North.
Since USA and JA are both North of the Equator, the distance is about
1/3 around the globe. Longpath, however, is pointing your antenna
South and making the trip in the opposite direction. Your signal goes
about 1/3 of the diameter of the Earth to reach the South Pole, then
another 1/3 the diameter of the Earth to go from South Pole to JA.
 $1/3 + 1/3 = 2/3$ (Long Path) > $1/3$ (Short Path).

It is most pronounced if you have a Yagi or other gain antenna that is
steerable. During the CQWW Contests, for example, I was able to work
Kuwait from W6 on 10M by pointing South (while his signal was in the noise
when I pointed North). When I lived in Amman, Jordan, on winter days
I used to regularly work the West Coast via the East on 40 and 80 M
because I was able to make use of grayline DX and 'the terminator'
which is the line between light and dark on the Globe. And that was
during the dregs of the last sunspot cycle!! Because 5pm my
time was 7am California time and the path was 'open' from December to
about February. However, at 7am my time, pointing West from Amman
I could only work as far as the East Coast and occasionally to the
Mississippi River on 40 and 80 because short path signals degraded before
the West Coast would open up.

The best short path/long path conditions are usually on 20 and up because
more hams can rotate their antennas on the higher bands (not too many
rotatable 40 and 80 M antennas). Hope this helps explain it. That's why
an E-W oriented dipole often works short path and long path.

One more thing -- as you watch propagation, the paths are not always

simple straight lines North or South. Often times there is a ''bending'' which many people presume is caused by the terminator between light and dark. >From the West Coast, for example, the best long path to Europe is often SW to Australia and up thru the Indian Ocean!! Don't know why it is, it just seems to be.

There are some great books on it -- ON4UN's Low Band DX series not only explains what's happening, but there are examples of antennas that might help you work the DX, too. Of course, LP DX work often requires QRO power (although back at the sunspot peak in 78-81, I know a lot of people who worked Europe on 10M with 5W to converted CB radios!

It can be done!!

GL and 73/72 de alan

[<Alan Kaul, W6RCL>] kaul@netcom.com

Date: Sat, 21 Jun 97 3:55:20 EDT
From: Joel Malman <malman@BBN.COM>
To: qrp-1@Lehigh.EDU
Cc: malman@BBN.COM
Subject: [21719] All Asia DX
Message-ID: <199706210755.DAA57620@nss2.CC.Lehigh.EDU>

QRP folks,

Thanks for all the input on the "short path" vs. "long path" problem.

In any event, everyone should get on the air (probably 20 meters) this weekend and work DX!! Seems the Asia DX crowd are just begging to be worked -- and they don't care if you are QRP or not!

I worked a JY9 thinking he was Japan -- only 10 minutes later did I figure out that JY9 was Jordan.

/joel wa1qvm (malman@bbn.com ... Concord, Ma.)
WIMPS: Qs=167 30m=150 17m=16 12m=01 States=24/04/00 DX=048/11/01

Date: Sat, 21 Jun 1997 10:21:56 +0100
From: "Juan Antonio =?iso-8859-1?Q?L=F3pez?= Delgado, EA8QJ" <jalopezd@arrakis.es>
To: qrp-1@lehigh.edu
Subject: [21720] EA-QRP CLUB
Message-ID: <33AB9D34.7694@arrakis.es>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: quoted-printable

"Apreciado amigo QRPista y de la radio"

=BFSabes que ya existe un club de QRP dedicado en cuerpo y alma a esta actividad de la radio, y que edita en lengua castellana (espanhol/espanol)un boletin que envia trimestralmente a todos sus socios en cualquier parte del mundo?

Llegamos a todo entusiasta aficionado a la radio que lo desee, ya sea de habla hispana o interesado en practicarla a traves del entretenimiento de la radio.

Su nombre es EA-QRP CLUB, y el boletin que se edita en los meses de Marzo, Junio, Septiembre y Diciembre, se llama QU-R-PE, siendo su contenido basicamente tecnico, abordando diversas materias desde y para diferentes niveles de conocimientos, aparte de noticias, mercadillo, y un especial apartado para Principiantes y, mucho mas, tolo ello en 60 paginas de enriquecedor contenido.

Si estas interesado en recibir informacion sin compromiso y conocernos algo mas, solitita el folleto informativo por este mismo medio a cualquiera de estas dos direcciones:

EA-QRP CLUB (Sede)
E-mail: eaqrp-c@arrakis.es

EA-QRP CLUB (Relaciones y Desarrollo)
E-mail: jalopezd@arrakis.es

=A1Aqui nos tienes a tu disposicion!

=A1Ahora tienes tu oportunidad!

=A1Crecemos cada dia mas y mas!

=A1Unete a nosotros, ya!

=A1Esperamos tu email! - =A1Envialo ahora mismo!

72/73 Juan Antonio Lopez, EA8QJ

EA-QRP CLUB - Relaciones y Desarrollo

EA-QRP #196, G-QRP #9055, QRP-L #1137

Date: Sat, 21 Jun 1997 08:17:02 -0400
From: timcook@erinet.com
To: QRPL <qrpl@Lehigh.EDU>
Subject: [21721] WTB: Stone Mt. Keypad for IC-735
Message-ID: <33ABC63E.4373@erinet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

As many qrp'rs use 735's, thought I would ask here if anyone has a Stone Mt. Keypad for sale. Please email directly

Thanks

Tim

NZ8J

Date: Sat, 21 Jun 1997 08:48:33 -0400
From: Zack Lau <zlau@arrl.org>
To: qrpl@Lehigh.EDU
Subject: [21722] Re: HP8640B Sig Gen
Message-ID: <33ABCD1.193E@arrl.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Paul Harden wrote:

>

> We have a bunch of H-P 8640B's at the observatory for frequency
> references and signal generators on the test bench (along with the
> newer HP 8657's). Many of the lab tests I've done on QRP rigs and
> published here used the H-P 8640B. It's frequency range is darn
> near dc to light (well, 1 GHz) with output level variable from
> +20dBm to -145dBm. Also has various AM and FM modulation, etc.
> It is 17 inches wide (for table top or mounting in a 19" rack)
> and 5 inches or so tall. Built like a tank.

>

--Zack Lau W1VT

found on the boatanchors list:
Harry KG5LO

Moving right along:

February 16, 1973

To Prevent the dial rubbing against the front panel the following change has been made in production. Replae the [4] 253-27 flat washers with two aluminum spacers, Part No: 255-1.

February 16, 1973

Bulletin No:
HW-7-2

Broadcast Interference

In spite of the article in the January issue of QST, page 48, we do not plan to make a modification kit for this problem. However, we plan to track the identity of all purchaser's & mail the information & parts to them individually. To service those we miss [retail sales primarily], the attached information sheet will suffice. The parts should be furnished at no charge. Only those with serial numbers starting '002' require the change. Others already have them in the kit itself.

February 16, 1973

HW-7 Bulletin No:
QRP Transceiver HW-7-3

Low Audio Level - Receiver

Replace R411 [10K Ohm] Part # 1-20 with 1000 Ohm, Part #1-9. This is a production change which should be made in all kits with SN's starting with '002'.

February 16, 1973

HW-7 Bulletin No:
QRP Transceiver HW-7-4

Service Hints

RECEIVER: The receiver section of the HW-7 is basically a direct conversion type circuit. The incoming signal is mixed with the on-frequency VFO signal to provide audio output.

The audio is filtered by the lowpass audio filter & coupled to the audio IC which has approximately 100db of gain. A certain amount of microphony is normal for this type of circuitry.

Normal sensitivity for this receiver is less than 1uv will provide a readable signal. This is normal since all Protos & Field Test Units showed much better sensitivity.

Typical RF voltage readings at the detector FET Q1 are .6 to 1 volt RMS nominal measured on Boonton 91-C meter. Any injection appreciably less than .4 volt RMS will give a loss of sensitivity. NOTE: This voltage is not a pure sine wave.

When Receiveing a signal, the front panel preselector control must be carefully peaked in the designated areas.

VFO/DOUBLER/TRIPLER

The Colpitts oscillator operates on 3.5 to 3.6 MHz and doubled to 7.0 to 7.2 MHz for 40 Meter operation. For 20 & 15 Meter operation, the oscillator runs at 7.0 to 7.1 MHz & doubled for 20 meter [14.0 to 14.2 MHz] & tripled for 15 meters [21.0 to 21.3 MHz]. Following are typical RF readings:

Gate of Q3 = Approx. 1 Volt RMS [Sine wave]
Base of Q4 = Approx. .8 Volt RMS [Approx. Sine wave]
Collector of Q4 = Sine wave with harmonics

OSC./DRIVER & RF AMPLIFIER

Base of Q5 [xmit] = 1 to 2.5 Volts RMS [not Sine wave]
Base of Q6, Q7 = 1.5 to 2.5 Volts RMS [not Sine wave]
RF output across 50 Ohm load should be approximately 10 Volts RMS [Sine wave for all bands].

Possible problem area in transmitter may be two extremely mis-matched out transistors [high gain with low gain]. This may cause one transistor to "hog" all the current thereby destroying itself. When this happens, also check zener diode ZD1 for possible open circuit. If instability is a problem, also check ZD1 for open circuit.

May 3, 1974

HW-7 Bulletin No:
QRP Transceiver HW-7-5

Audio ["popcorn"] Noise Reduction

The following modification will reduce the noise level of the CA-3035V1 audio IC considerably:

1] Connect a 220K [PN 1-29] resistor and a .1uf [PN 21-95] disc IN SERIES from pin 4 to pin 5 of the CA-3035V1 on the foil side of the board.

2] Connect a 1 uf Electrolytic [PN 25-197] from pin 6 of the CA-3035V1 to the ground foil between pins 2 & 8.

July 12, 1974

HW-7 Bulletin No:
QRP Transceiver HW-7-6

Sensitivity Improvement

1] Jumper a small wire across C6 [100pf] on the foil side of the board.

2] Remove R1 [100K Resistor].

NOTE: If the unit fails to operate, or there is no increase in sensitivity with this resistor removed, it should be reinstalled in the circuit.

These circuit changes are to be made only as needed.

March 26, 1975

HW-7 Bulletin No:
QRP Transceiver HW-7-7

Pulse Oscillation on 40 Meters

If the HW-7 has an oscillator problem, check to see if Q2 is a Teledyne device rather than a Motorola.

To prevent the circuit from pulse oscillating, install a ferrite bead [PN 475-10] on the gate lead if Q2 is a Teledyne type.

HW-7 Modifications

- A. Remove & discard capacitors C-5, C-6, C-8, C-9.
- B. Replace C-5 & C-9 with .22uf mylar capacitors.

- A. Lift coax from point A on circuit board.
- B. Install 100pf mica capacitor between center conductor of coax and point A. [Improves BCB rejection].

- A. Install heat sinks on transistors using silicone grease for PA protection.

PARTS LIST

[2]	.22UF	27-85
[1]	100PF	20-102
[2]	#4-40X1/2" SCREW	250-52
[2]	#4 LOCKWASHER	254-9
[2]	#4-40 NUT	252-15
[1]	SILICONE GREASE	352-13
[2]	HEAT SINK PLATE	205-1436

April 17, 1975

HW-7 Bulletin No:
QRP Transceiver HW-7-8

Modifications F/U/W the HD-1410 Keyer

The HW-7 keying circuit was designed to be compatible with the HD-10 keyer. This is the reason that the key jack has the tip contact grounded. Two changes should be made to the HW-7 to allow use with the HD-1410:

A] The two wires going to the HW-7 key jack should be reversed.

B] R39 should be changed from 470 Ohm to 4700 Ohm.

That's it for HW-7.

73 de JOE

- - - - -W7LPF/4 (NNN0KU) - - - - -
QWCA - NCVA - SOWP - FISTS
Gordonsville, Va 22942 (Orange County)
Looking for: Heathkit HR/HX-20, MR/MT-1,
 Collins 516F-2, 312B-4, EFJ TR Switch
- - - - -

Date: Sat, 21 Jun 1997 08:55:50 EDT
From: wb2vuo@juno.com (William K Hibbert)
To: n4so@juno.com, qrp-1@Lehigh.EDU
Subject: [21724] Re: BARK Files causing Juno Crash?
Message-ID: <19970621.085457.2063.0.wb2vuo@juno.com>

Line length. I did get to see the problem first-hand at another Juno user's home.

Export the Inbox using the Features, then go to File and Delete the Inbox before reading. Use another editor to read and delete the files. You can then make a new folder called Inbox, and not lose anything in the process...

I'll have to send them individually rather than bundling them together. I'll get back to it on Monday...

Sorry for the trouble. It's nothing I have seen before with my Juno installation...

72/73, Keith, WB2VUO, QRP-L #582, scQRP 40, 100% QRP
Tech Specialist (ARRL/WNY), ARRL Life Member,
Trustee, NQ2RP/B 10 Mtr QRP Beacon (4 Watts @ 28.2870 MHz)
"In the Depths of the Great Bergen (NY) Swamp...FN13ac"
Packet - wb2vuo@w2im.#wny.ny.usa.noam *** Email - wb2vuo@juno.com
SnailMail - CBA *** Phone - 716.494.1239

"My Night Light runs more power than my Rig!!!"

Date: Sat, 21 Jun 1997 07:45:02 -0600 (CST)
From: Bruce Rattray <RATTRAY@siast.sk.ca>
To: qrp-l@Lehigh.EDU
Subject: [21725] SS NL
Message-ID: <1502450721061997/A09647/RIEL/11B6A9EB1A00*@MHS>
MIME-version: 1.0
Content-type: TEXT/PLAIN; CHARSET=US-ASCII
Content-transfer-encoding: 7BIT

Re the addition of NL to SS...as a Greek philospher once said "Nothing
endures but change." ...and so it goes...72 - Bruce(VE5RC) QRP-L#886
"QRP! How sweet it is!"

e-mail: rattray@siast.sk.ca

Date: Sat, 21 Jun 97 07:56:24 +0000
From: tgordish@concentric.net
To: "qrp-l" <qrp-l@lehigh.edu>
Subject: [21726] Antenna Tuner Toroid Turns?
Message-ID: <199706211455.KAA26362@marconi.concentric.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

QRP folk,

I am building an antenna tuner so that I can use my 20m SST with my 30m
dipole. This is a junk box project. I have a 1 1/4" toroid that I plan
on using for a multi-tapped inductor, and a air variable capacitor with
100 a uf value. Now the question is.... how many turns of what gauge
wire should this toroid be wound with to make a good general purpose
antenna antenna tuner?

72 de

Tim & Aretta Gordish
KB9LGJ & N0YDG
Yuma, AZ

QRP-L #457, ScQRPion #25, IDEA, ARRL
Rigs: 38-S, 20m-SST
WAS on 30: 16 confirmed

**All the nations may walk in the name of their gods, we walk in the name
of the Lord our God for ever and ever" Micah 4:5**

Date: Sat, 21 Jun 1997 11:00:18 EDT
From: n4so@juno.com
To: qrp-l@lehigh.edu
Subject: [21727] Beam Heading Programs
Message-ID: <19970621.105641.9999.5.N4S0@juno.com>

Short Path and Long Path
Beam Heading Programs will list DXCC countries, short path and long path
headings in degrees and the distance in miles. The headings are based on
your latitude and longitude.
The ARRL BBS (860-594-0306) is showing a program called Beamhead.zip
in the Index.

Ken Brown , N4S0
QTH: Nr Mobile, AL
QRP-L #622
n4so@juno.com

Date: Sat, 21 Jun 1997 15:22:19 +0000
From: Bob Roach <KE4QOK@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [21728] Re: Headsup SS 97 Note
Message-ID: <19970621152217.AAA2043@LOCALNAME>

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>>The bad news in all this is that there is the likely chance that it may
>>become physically impossible for anyone in the contest to get a cleansweep,
>>i.e work all 79 sections. And it's not like someone can pack up a small

I can't agree with all the concern here. If clean sweeps are easy or even
reasonably difficult, what's the point??? The challenge of chasing an
elusive goal is why we are all here. Otherwise we would be on the BIG AMP
reflectoror. Right??? <GGGGG>

(o o)

-----o00_()_00o-----

73 es TNX

KE4QOK Real radios glow in the dark.

Bob Power is no substitute for skill.

If it stayed up last winter, it was too small.

136 Hermitage Rd.

Newport News, Va. 23606 KE4QOK@worldnet.att.net

(757)930-0348 Advanced, W5YI VE, ARRL, PARC

Date: Sat, 21 Jun 1997 12:15:18 EDT
From: wb2vuo@juno.com (William K Hibbert)
To: qrp-l@lehigh.edu
Subject: [21729] NQ2RP/B a REAL Test on your Ears!!
Message-ID: <19970621.121401.2063.1.wb2vuo@juno.com>

The B/BAMS beacon is on the backup TX, and this one will be a real test
on your RX!

The transmitter is running, as close as I can tell, +11 dBm into 50-ohms,
or about 125 milliwatts. The antenna is a G.P. up 40 feet, and the
feedline has about 1 dB loss. Therefore, the ERP is around -10 dBw, and
the frequency is about 300 hz higher, putting the TX on 28.2873 MHz...

It's there 24-hrs a day, and the backwave is -16 dBc, or 0.5 mW. Send
reports on NQ2RP/B to me here at wb2vuo@juno.com

72/73, Keith, WB2VUO, QRP-L #582, scQRP 40, 100% QRP
Tech Specialist (ARRL/WNY), ARRL Life Member,
Trustee, NQ2RP/B 10 Mtr QRP Beacon (4 Watts @ 28.2870 MHz)
"In the Depths of the Great Bergen (NY) Swamp...FN13ac"

Packet - wb2vuo@w2im.#wny.ny.usa.noam *** Email - wb2vuo@juno.com
SnailMail - CBA *** Phone - 716.494.1239

"My Night Light runs more power than my Rig!!!"

Date: Sat, 21 Jun 1997 10:42:02 -0600
From: ji3m@maxwell.com (James R. Duffey)
To: qrp-l@Lehigh.EDU
Subject: [21730] Correct Loop Antenna Circumference
Message-ID: <v0213050dafd1b12c9d13@[192.31.66.229]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Fellow loopers, past loopers, and loopers to be;
With the recent flurry of QRP-L posts on loops I have not seen reference to the traditional formula for calculating loop circumference giving loops that are too small. I posted the comments below to the list in response to a post by Dan Halbert some time ago. The post probably bears repeating as I have not seen reference to this issue in recent posts. I dug up the following from my out box;

"I and others who have built loops find that the classical 1005/MHz (in feet) results in a loop that is too small; that is it is resonant at too high a frequency. 1033/MHz is a better starting point for loop circumference although several who have modeled loops have reported values from 1020/MHz to 1045/MHz result in the correct value for the circumference. I originally thought that my problems with consistently high resonant frequencies were due to my use of insulated wire or my poor ground conductivity, but NEC models show this effect clearly and others have noted it as well.

"This was discussed in the NEC list in December 1996 by Belrose, VE2CV, and Lewallen, W7EL, among others. The postings are available if anyone is interested, or you can search their archives for them. Belrose said that he had been trying to get the ARRL to revise its literature which quotes this figure since the late 70s but had made no inroads in correcting this classical mistake.

I would bet L. B. has seen this effect."

I got a surprising number of replies to this post, all of whom had seen the effect in loops they had constructed, but had not seen it pointed out in the literature. It is truly amazing how long wrong information stays in the literature.

Keep on looping. - Duffey KK6MC/5

James R Duffey KK6MC/5 DM65
30 Casa Loma Road
Cedar Crest, NM 87008

Date: Sat, 21 Jun 1997 11:58:05 CDT
From: "Rick Hadley" <r.hadley@www.mebbs.com>
To: kaul@netcom.com, "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [21731] Re: short vs. long path
Message-ID: <1.5.4.16.19970621112242.356725ca@www.mebbs.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 10:42 PM 6/20/97 -0700, Alan Kaul wrote:

> Of course, LP DX work often requires
> QRO power (although back at the sunspot peak in 78-81, I know a lot of
> people who worked Europe on 10M with 5W to converted CB radios!
>
> It can be done!!
>

Shoot, on 10M at the peak of the sunspot cycle you can work almost ANYWHERE with almost anything. Running an HTX100 & a converted CB mag-mount, I used to work Russians on SSB while driving to work in the morning, and I even snagged Jim Smith, VK9NS on Norfolk Island one afternoon. 'Think I managed about 30 countries on one 4-day vacation trip without evening trying very hard.

Richard W. (Rick) Hadley
W0FG - Life Member ARRL
QRP-L #1019
r.hadley@www.mebbs.com
The Solutions Store, Ltd.

Date: Sat, 21 Jun 1997 13:51:34 -0400 (EDT)
From: Mike Czuhajewski <wa8mcq@u1.abs.net>
To: qrp forum <qrp-l@lehigh.edu>
Subject: [21732] Minicircuits on-line special

Message-ID: <Pine.BSI.3.93.970621134417.29545A-100000@u1.abs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Forgive me if this has been posted already; I don't get to read many of the daily digests of late so this may be duplicate information.

Browsing the web, I looked at the Minicircuits home page at www.minicircuits.com, and clicked on the "what's new" icon. It lists a few specials they have for web-browsers for the month of June. They do have a \$50 minimum order, so you may want to consolidate orders or get a lifetime supply for yourself and a few close homebrewing friends :-)
(You can order online too, if you don't mind passing a credit card number, or by mail or fax.)

There's a splitter/combiner, but most people will probably be interested in the other two:

SBL-1 mixers, \$3.05
MAR-1 MMIC amps 69 cents

Usual disclaimers, no connection except as a long time and loyal user of their products, with several dozen of their modules in my junkbox (all of which were obtained at very good prices by being in the right places at the right times!).

73 and Queue Our Pea DE WA8MCQ wa8mcq@abs.net

Date: Sat, 21 Jun 1997 14:07:08 -0400
From: "Paul Christensen" <paulc@mediaone.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [21733] SST ABX Mod
Message-ID: <19970621180709.AAA8905@6626hvt5p091.se.mediaone.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Has anyone else tried this on their SST transceivers? I made the modification today, but in a wide IF setting, both sides of zero beat are heard. Wayne had a fix for this on the Norcal 40A by adding a choke in series with BFO crystal I believe. I haven't yet looked at the schematic to identify whether this can be accomplished the same way with the SST's

VX0.

-Paul, W9AC

Date: Sat, 21 Jun 1997 13:30:53 -0500
From: pat_b@juno.com (Patricia A Bright)
To: qrp-1@lehigh.edu
Subject: [21734] For Sale: Ten-Tec 525D Argosy II
Message-ID: <19970621.133054.3334.0.pat_b@juno.com>

I have a 525D that I'm interested in selling. It's in very good condition with only a few minor scratches. It has the noise blanker and AF filter installed, as well as a 2nd 2.4 KHz standard filter in the optional filter socket. I'd like \$450 incl. shipping.

Charlie, WE0RL

Date: Sat, 21 Jun 1997 14:25:24 -0400 (EDT)
From: Bernie Doehner <bad@uhf.wireless.net>
To: homebrew@qsl.net, qrp-1@lehigh.edu
Subject: [21735] repairing scratches on Tektronics equipment.
Message-ID: <Pine.BSF.3.95.970621142248.531A-100000@uhf.wdc.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi:

I'd like to repair paint scratches on a Tek 2755AP spectrum analyzer.

Does anyone know what paint they used so that I can use the exact match? What is the best method for doing this? Do I absolutely have to spray paint? Or can I brush paint the repair?

Bernie

Date: Sat, 21 Jun 1997 13:30:39 -0500

From: "Mark A. Arvidson" <arvidson@swbell.net>
To: qrp-1@Lehigh.EDU, homebrew@qsl.net
Subject: [21736] Looking for small parts
Message-ID: <33AC1DCF.6936@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Howdy all,

I'm working on a project over here in my shack, and I've discovered I'm a couple small parts short. In order to avoid setting up a whole minimum order/shipping & handling costs for these two tiny things, I thought I'd ask if anyone here has them in their junk boxes.

All I'm looking for is a 14.135 crystal and a 4.7uH molded choke.

As you can see, this only adds up to a couple dollars, and I have just gotten a few orders from some places.

I'd be glad to work out prices and shipping (an evelope?) for anyone who can give me a hand. If I don't hear anything in the next couple days, I'll see if the local radio shack will special order them. (they don't have them in stock)

Thank you much in advance,
Mark Arvidson, KB0SPQ
arvidson@swbell.net

Date: Sat, 21 Jun 1997 12:43:47 +0000
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: qrp-1@Lehigh.EDU
Subject: [21737] Web Site Update
Message-ID: <199706211844.MAA21485@lynx.csn.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

I've just updated my (Milestone Technologies, Inc.) web site:
<http://www.mtechnologies.com/mthome>. Main changes are addition of a site index and a products & prices page (with links to the detail). Comments as always welcome.

BTW, the price list is now in some sort of reasonable shape that I can email a copy to anyone who can't surf the web.

73

Marshall Emm

AA0XI/VK5FN

aa0xi@mtechnologies.com

<http://www.mtechnologies.com/mthome>

Date: Sat, 21 Jun 1997 16:28:47 +0100
From: Leon Heller <leon@lfheller.demon.co.uk>
To: tgordish@concentric.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [21738] Re: Antenna Tuner Toroid Turns?
Message-ID: <f6QDYBAvM\$qzEwUU@lfheller.demon.co.uk>
MIME-Version: 1.0

In message <199706211455.KAA26362@marconi.concentric.net>,
tgordish@concentric.net writes

>QRP folk,

>

>I am building an antenna tuner so that I can use my 20m SST with my 30m
>dipole. This is a junk box project. I have a 1 1/4" toroid that I plan
>on using for a multi-tapped inductor, and a air variable capacitor with
>100 a uf value. Now the question is.... how many turns of what gauge
>wire should this toroid be wound with to make a good general purpose
>antenna antenna tuner?

>

The July issue of RADCOM has a 'T' Match AMU design using a tapped
toroidal winding. With a pair of 400 pF tuning capacitors (each is a
dual 200 pF unit connected in parallel), the T-130-2 toroid is tapped at
10, 12, 15, 17, 20, 23, 26, 29, 31, 33, and 35 turns, with 36 turns of
22 SWG wire (~.71 mm) in total. It covers the range 1.8 MHz to 30 MHz,
and is good for 5 W. A balun consisting of 12 bifilar turns of 26 SWG
wire (~0.45 mm) on an FT-50-43 ferrite toroid can be switched in and
out.

Leon

--

Leon Heller

Amateur radio callsign: G1HSM

Email: leon@lfheller.demon.co.uk <http://www.lfheller.demon.co.uk>

Tel: +44 (0) 118 947 1424 (home) +44 (0) 1344 385556 (work)

Date: Sat, 21 Jun 1997 16:05:46 EDT
From: haf47@juno.com
To: wb2vuo@juno.com
Cc: qrp-1@lehigh.edu
Subject: [21739] Re: BARK Files causing Juno Crash?
Message-ID: <19970621.160138.7839.0.HAF47@juno.com>

haf47@juno.com

On Fri, 20 Jun 1997 18:55:02 EDT wb2vuo@juno.com (William K Hibbert) writes:

>
>Have any other Juno users experienced the General Protection Faults
>that Ken, N4SO experienced when reading my posts???
>
.Hi Keith,...yeah, my Juno program crashes everytime it stops on that Bark message. If you hear of a way to delete it, please let me know.
Thanks. Howard

haf47@juno.com

Date: Sat, 21 Jun 1997 16:25:24 -0700
From: astone@erols.com
To: qrp-1@lehigh.edu
Subject: [21740] NE602 Differential Input/Output Impedance Question
Message-ID: <33AC62E4.3CDC@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Here's one for you gurus out there. Hopefully, someone can clear up a bit of confusion for me. On page 72 of Spring QRPp, Jim Kortge states: "I used a transformer to get the 750 ohm push-pull output of U1 down to 50 ohms..." Rutledge's "Electronics of Radio: EE20" course book -- indicates the output impedance to be 3K for the differential input (or output) -- pgs. 4.8, 10.15, 10.17. Single ended input/output impedance is 1500 ohms. In both examples, a conventional toroid transformer is being used with the primary across pins 4 and 5 of the NE602 and the secondary drives the crystal filter. Who's right?

Thanks for your help.

Ron (KA3J)
Bethesda, MD

Date: Sat, 21 Jun 1997 16:54:26 EDT
From: haf47@juno.com
To: d.nordquest@juno.com
Cc: qrp-1@Lehigh.EDU
Subject: [21741] Re: Juno crashes
Message-ID: <19970621.165111.7839.1.HAF47@juno.com>

Howdy Dave, Thanks so much for your email. Didn't know it was so easy to do! You sorta made my day, and I appreciate it. 73, Howard WA2AFD

haf47@juno.com

On Fri, 20 Jun 1997 23:21:59 EDT d.nordquest@juno.com writes:
>To recover without replacing your c:\juno\user0000\Fold0000.frm file
>(Inbox), go to your favorite editor, open this file, and delete the
>offending message(s) only. (If you are not the only user, user0000
>could be something else (user0001, probably)).
>
Dave KE9ED

Date: Sat, 21 Jun 1997 16:54:26 EDT
From: haf47@juno.com
To: wb2vuo@juno.com
Cc: qrp-1@lehigh.edu
Subject: [21742] Re: Juno crashes
Message-ID: <19970621.165110.7839.0.HAF47@juno.com>

haf47@juno.com

On Fri, 20 Jun 1997 21:08:38 EDT wb2vuo@juno.com (William K Hibbert) writes:
>Your post is the first one other than Ken's that reported problems,
>Howard.
>
>I have had several that reported no problems at all.
>
>Which version of Juno are you running? I have the V 1.38 upgrade

>installed here...

>

>72/73, Keith, WB2VU0, QRP-L #582, scQRP 40, 100% QRP